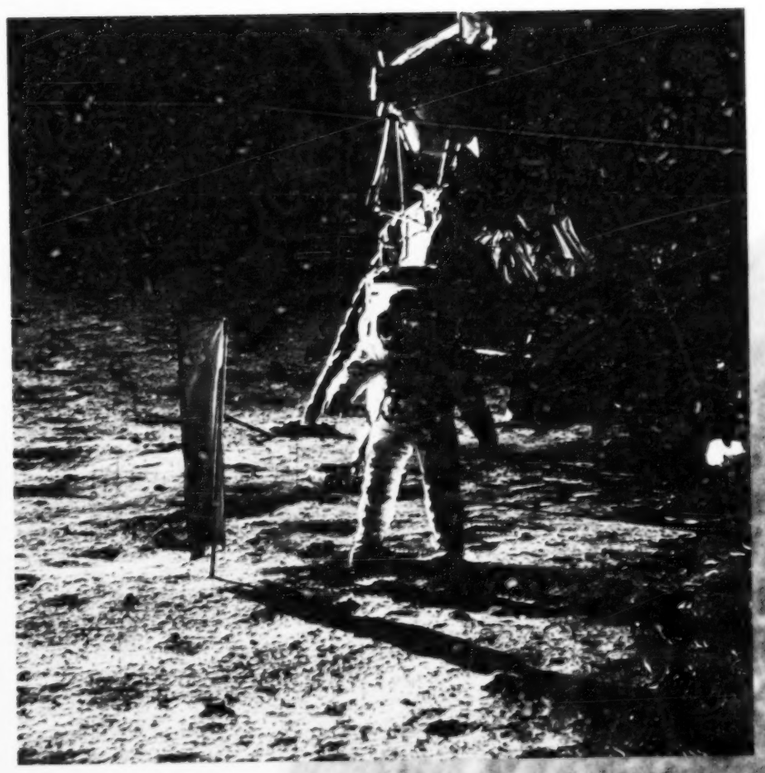
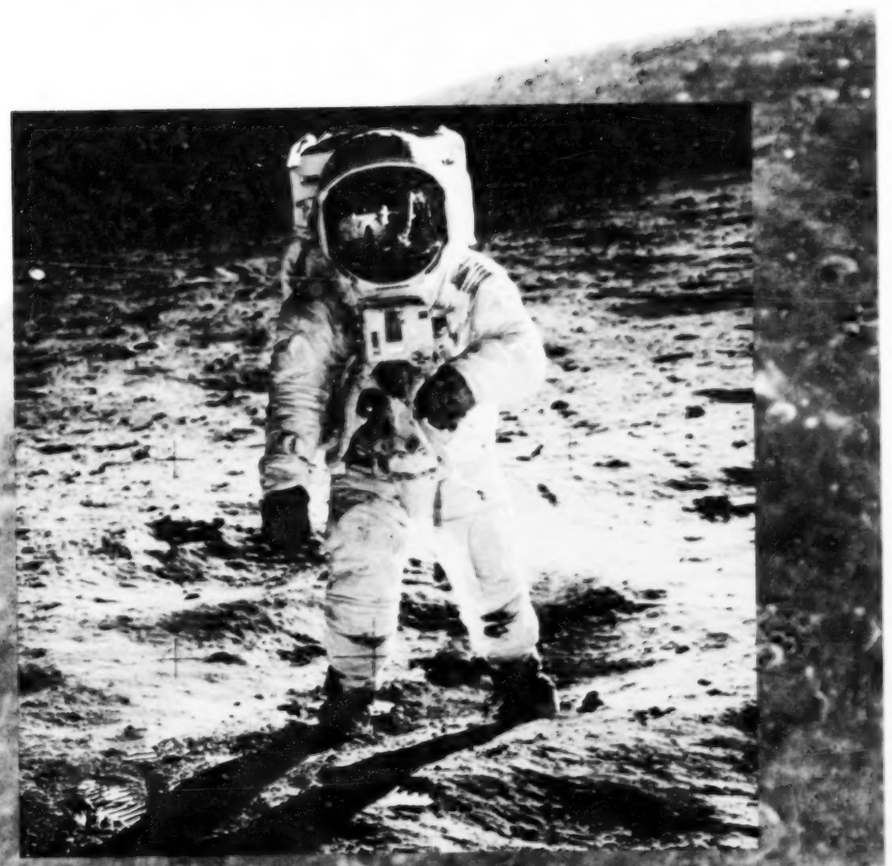
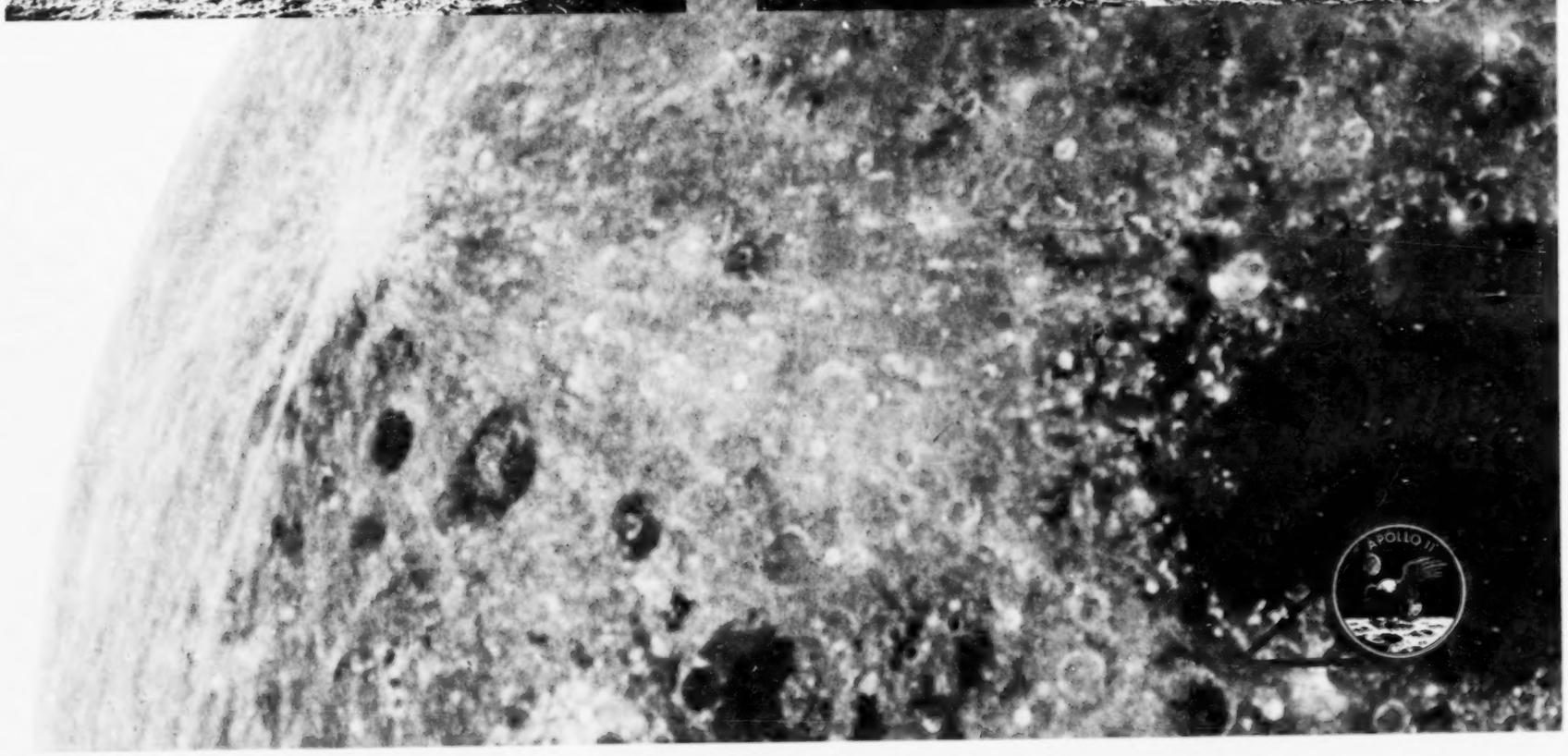
NASA National Aeronautics and Space Administration

*Apollo* 11—20th Anniversary of the First Lunar Landing







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*Apollo* 11 astronauts Neil A. Armstrong, Michael Collins, and Edwin E. Aldrin, Jr., were launched to the Moon by a Saturn V launch vehicle 9:32 a.m. EDT, July 16, 1969, from Complex 39A, Cape Kennedy, Florida. Armstrong and Aldrin landed on the Moon July 20, 1969, and after take-off from the Moon July 21, joined Collins in the Command Module circling the Moon.

**Left**
View of the launch of the huge, 363-foot-tall Saturn V launch vehicle from Kennedy Space Center.

**Background Right**
*Apollo* 11 View of the Moon—This view of the Moon was photographed from the *Apollo* 11 spacecraft during its transearth journey homeward. When this picture was taken the spacecraft was already 10,000 nautical miles away.

**Center**
Astronaut Edwin E. Aldrin, Jr. stands by deployed Solar Wind Composition Experiment. The Lunar Module stands on the surface of the Moon in the background.

**Upper Right**
Astronaut Edwin E. Aldrin, Jr., lunar module pilot, is photographed walking near the lunar module during the *Apollo* 11 extravehicular activity. This picture was taken by astronaut Neil A. Armstrong, commander, with a 70mm lunar surface camera.

**Lower Right**
The official NASA commemorative logo marking the 20th anniversary of the first lunar landing incorporates the original *Apollo* 11 crew insignia inside the figure 20. The crew insignia, symbolizing America's peaceful mission, depicts an eagle descending upon the lunar surface holding an olive branch.

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## For the Classroom

1. Using *The Readers' Guide to Periodical Literature*, have students compile a bibliography on the *Apollo* program.
2. Lunar Samples for Display

- **The Moon Rocks and What They Tell Us**
  The six successful *Apollo* landings returned more than 2,000 different samples of the Moon, 342 kilograms (842 pounds) in all. From these samples we learned that the Moon is not a uniform and monotonous world, but a complex and individual planet with its own unique history. Despite all their important scientific value, the Moon rocks are far more than just specimens. They are the tangible symbol of a great achievement. They are interesting and exciting to look at. The NASA Johnson Space Center Office of Public Affairs maintains an education program involving the loan of lunar samples.

- **Educational Disk Program**
  This program consists of six samples of lunar material (three soils and three rocks) encapsulated in a six-inch diameter clear lucite disk. The disk is accompanied by written and graphic descriptions of each sample in the disk; a film; a sound and slide presentation; a teacher workbook; and additional printed material. This program was designed to be used as a science teaching aid in a classroom environment. Science teachers may qualify for the use of a disk in their classroom by attending one of the many workshops sponsored by NASA's Space Science Education Specialists. These workshops are scheduled during the year at different locations throughout the United States. Museums and planetariums that schedule educational programs may also request the disk for use. Basic requirements for using the disk are: The disk must be secured, while not in use, in a safe or vault-type safe or cabinet with a bar and combination lock; may be sent via registered mail to and from locations; and, must be under constant surveillance while in use. For additional information, schools should contact the Educational Coordinator at the Johnson Space Center; museum and planetarium personnel should contact the Exhibits Coordinator at the Johnson Space Center, Houston, TX 77058.

- **Thin Section Program**
  A set of lunar thin sections is available for instructive and study purposes by college and university science courses. This program consists of twelve samples of soils and rocks and a descriptive booklet. College and university instructors may obtain information about this program by contacting the JSC Curator's Office, Code SN2, Houston, Texas 77058.